

**K to 12 BASIC EDUCATION CURRICULUM
TECHNOLOGY AND LIVELIHOOD EDUCATION
INDUSTRIAL ARTS – MASONRY
Grade 7/ 8 (Exploratory)**

Course Description:

This is an exploratory and introductory course which leads to a **Masonry** National Certificate Level II (NC II). It covers four common competencies that the **Grade 7/Grade 8** Technology and Livelihood Education (TLE) student should acquire: (1) using tools, equipment and paraphernalia, (2) performing mensuration and calculation; 3) practicing Occupational Health and Safety (OHS) procedures; and (4) interpreting technical drawing and plans.

The preliminaries of this exploratory course include the following: (1) discussion on the relevance of the course, (2) explanation of key concepts relative to the course, and (3) exploration of career opportunities.

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
Introduction 1. Basic concepts in Masonry 2. Relevance of the course 3. Career opportunities	The learner demonstrates an understanding of the basic concepts and underlying theories in Masonry	The learner independently demonstrates common competencies in masonry as prescribed by TESDA Training Regulations.	1. Explain basic concepts in masonry 2. Discuss the relevance of the course 3. Explore career opportunities in masonry	
PERSONAL ENTREPRENEURIAL COMPETENCIES (PeCS)				
1. Assessment of Personal Entrepreneurial Competencies and Skills (PeCS) vis-à-vis a practicing entrepreneur/employee 1.1 Characteristics 1.2 Attributes 1.3 Lifestyle 1.4 Skills 1.5 Traits 2. Analysis of one's PeCS	The learner demonstrates an understanding of one's Personal Entrepreneurial Competencies and Skills (PeCS).	The learner recognizes his/her Personal Entrepreneurial Competencies and Skills (PeCS) and prepares a list of PeCS of a practitioner/entrepreneur in masonry.	LO 1. Recognize Personal Entrepreneurial Competencies and Skills (PeCS) needed in masonry 1.1 Assess one's PeCS: characteristics, attributes, lifestyle, skills, traits 1.2 Assess practitioner's: characteristics, attributes, lifestyle, skills, traits 1.3 Compare one's PeCS with those of a practitioner /entrepreneur	TLE_ PECS7/8-0k-1
ENVIRONMENT AND MARKET (EM)				
1. Key concepts of Environment and Market 2. Products & services available in the market 3. Differentiation of products	The learner demonstrates an understanding of the concepts environment and market and how they relate to a career choice in	The learner independently generates a business idea based on the analysis of environment and market in Masonry.	LO 1. Generate a business idea that relates with a career choice in Masonry 1.1 Conduct SWOT analysis 1.2 Identify the different products/services available in the market	TLE_EM7/8-0k-1

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
and services 4. Customers and their buying habits 5. Competition in the market 6. SWOT Analysis	Masonry.		1.3 Compare different products/services in Masonry business 1.4 Determine the profile potential customers 1.5 Determine the profile potential competitors 1.6 Generate potential business idea based on the SWOT analysis	
LESSON 1: PREPARE CONSTRUCTION MATERIALS AND TOOLS (UT)				
1. Masonry and materials 2. Job order and requisition slips 3. Materials management	The learner demonstrates an understanding of concepts in the preparation of materials and tools using the different forms in masonry.	The learner independently prepares appropriate masonry materials and tools using the different forms in tile setting based on industry standards.	LO1. Prepare masonry materials and tools for the task 1.1 Prepare a list of masonry tools and materials for a specific job LO2. Request appropriate masonry supplies materials and tools applicable to a specific job 2.1 Use the appropriate form in requesting for masonry tools, supplies and materials for a specific job LO3. Receive and inspect masonry supplies, materials and tools 3.1 Check and inspect received items on the list	TLE_IAMS7/8UT-0a-1 TLE_IAMS7/8UT-0b-2 TLE_IAMS7/8UT-0b-3
LESSON 2: OBSERVE PROCEDURE, SPECIFICATIONS AND MANUALS OF INSTRUCTIONS (ID)				
1. Types of masonry works 2. Signs and symbols 3. Specifications in the work plan	The learner demonstrates an understanding of the concepts and underlying principles in interpreting simple technical drawings	The learner independently reads and interprets specifications of simple technical drawings and plans.	LO1. ANALYZE SIGNS, MASONRY SYMBOLS AND DATA 1.1 Read and interpret masonry signs, symbols and data 1.2 Analyze materials based on masonry	TLE_IAMS7/8ID-0c-1

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
1. Philippine OHS standards of hazards in the workplace 2. Safety regulations 3. Operational health and safety procedures, practices and regulations	The learner demonstrates an understanding of the concepts and underlying principles of occupational health and safety procedures.	The learner independently simulates occupational health and safety procedures.	LO1. IDENTIFY HAZARDS AND RISKS 1.1 List down hazards and risks in the workplace LO2. CONTROL HAZARDS AND RISKS 2.1 Determine effects of hazards and risks 2.2 Evaluate hazards and risks 2.3 Follow procedure for controlling hazards and risks in the workplace LO3. PRACTICE OHSP	TLE_IAMS7/8OS-0i-1 TLE_IAMS7/8OS-0h-i-2 TLE_IAMS7/8OS-0j-3

**K to 12 BASIC EDUCATION CURRICULUM
TECHNOLOGY AND LIVELIHOOD EDUCATION
INDUSTRIAL ARTS – MASONRY
GRADE 9 (Specialization)**

Course Description:

This course is composed of the core competencies which lead to a **Masonry** National Certificate Level II (NCII). It covers performing basic masonry works and preparing masonry materials. This also covers the knowledge, skills and attitude required to perform basic masonry works and prepare masonry materials.

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
<p>Introduction</p> <ol style="list-style-type: none"> 1. Basic concepts in masonry 2. Relevance of the course 3. Career opportunities 	<p>The learner demonstrates an understanding of the basic concepts and underlying theories in masonry.</p>	<p>The learner independently demonstrates core competencies in masonry as prescribed by TESDA Training Regulations.</p>	<ol style="list-style-type: none"> 1. Explain basic concepts in masonry 2. Discuss the relevance of the course 3. Explore career opportunities in masonry 	
PERSONAL ENTREPRENEURIAL COMPETENCIES (PECS)				
<ol style="list-style-type: none"> 1. Assessment of Personal Competencies and Skills (PeCS) vis-à-vis a practicing entrepreneur/employee in locality/town. <ol style="list-style-type: none"> 1.1 Characteristics 1.2 Attributes 1.3 Lifestyle 1.4 Skills 1.5 Traits 2. Analysis of PeCS in relation to a practitioner 3. Align, strengthen and develop ones PeCS based on the results 	<p>The learner demonstrates an understanding of one's Personal Competencies and Skills (PeCS) in masonry.</p>	<p>The learner recognizes his/her Personal Entrepreneurial Competencies and Skills (PeCS) and prepares an activity plan that aligns with that of a practitioner/entrepreneur in masonry</p>	<p>LO 1. Recognize Personal Entrepreneurial Competencies and Skills (PeCS) needed in masonry</p> <ol style="list-style-type: none"> 1.1 Assess one's PeCS: characteristics, attributes, lifestyle, skills, traits 1.2 Assess practitioner's: characteristics, attributes, lifestyle, skills, traits 1.3 Compare one's PECSS with that of a practitioner /entrepreneur 1.4 Align one's PECSS with that of a practitioner/entrepreneur 	TLE_PECS9-Ik-1

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
ENVIRONMENT AND MARKET (EM)				
Market (Town) 1. Key concepts of Market 2. Players in the Market (Competitors) 3. Products & services available in the market	The learner demonstrates an understanding of the concepts environment and market in the field of masonry, particularly in one's town/municipality.	The learner independently creates a business vicinity map reflective of the potential masonry market within the locality/town.	LO 1. Recognize and understand the market in Masonry 1.1 Identify the players/ competitors within the town 1.2 Identify the different products/services available in the market	TLE_EM9-Ik-1
Market (Customer) 4. Key concepts in Identifying and Understanding the Consumer 5. Consumer Analysis through: 5.1 Observation 5.2 Interviews 5.3 Focus group discussion (FGD) 5.4 Survey			LO 2. Recognize the potential customer/market in Masonry 2.1 Identify profile of potential customers 2.2 Identify customer's needs and wants through consumer analysis 2.3 Conduct consumer/market analysis	TLE_EM9-IIk-2
6. Generating Business Ideas 6.1 Key concepts in Generating Business Ideas 6.2 Knowledge, skills, passions and interests 6.3 new applications 6.4 Irritants 6.5 Striking ideas (new concept) 6.6 Serendipity Walk			LO 3. Create new business ideas in the masonry business by using various techniques 3.1 Explore ways of generating business idea from one's own characteristics/attributes 3.2 Generate business ideas using product innovation from irritants, trends and emerging needs 3.3 Generate business ideas using Serendipity Walk	TLE_EM9-IIIk-IVk-3

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
PERFORM BASIC MASONRY WORKS (36) (MW)				
1. Classification of masonry anchors, ties and reinforcements, 2. Fabrication procedures of reinforcement bars 3. Properties of metal 4. Corrosion 5. Composition of metals 6. Thermal expansion of materials 7. Basic operations 8. Linear measurements 9. Conversion of units 10. Angles 11. Fractions 12. Decimals 13. Following oral and written instructions	The learner demonstrates an understanding of the concepts and underlying principles in performing basic masonry works.	The learner independently performs basic masonry works based on job description.	LO1. PERFORM RE-BAR FABRICATION AND INSTALLATION 1.1 Identify steel bars to be used in re-bar fabrication and installation 1.2 Measure steel bar according to given task 1.3 Cut and bend steel bars according to given task 1.4 Fabricate re-bar based on job requirement 1.5 Install fabricated re-bars based on job requirement 1.6 Observe safety precautions	TLE_IAMS9MW-IIIa-d-1
14. Components of steel/wooden scaffoldings 15. Advantages and disadvantages of steel/wooden scaffoldings 16. Procedures in erecting and dismantling scaffoldings 17. Scaffolding safety practices 18. Safekeeping of scaffoldings 19. Characteristics of steel and lumber			LO2. ERECT AND DISMANTLE SCAFFOLDINGS (1.8 M AND BELOW) 2.1 Check components of scaffolding based on job requirement 2.2 Erect scaffolding based on job requirements 2.3 Dismantle scaffolding in accordance with safety practices. 2.4 Stockpile components of scaffolding. 2.5 Observe safety precaution 2.6 Use appropriate PPE	TLE_IAMS9MW-IIIe-h-2

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
20. Equilibrium of forces 21. Linear measurements 22. Mensuration 23. Conversion of units 24. Fractions 25. Receiving and responding to workplace communication 26. Preparing inventory reports 27. Types, parts, shape and uses of formworks 28. Proper stockpiling of formworks 29. Formwork fabrication procedures 30. Techniques in installing formworks 31. Procedures in stripping formworks 32. Formworks preservation 33. Properties of metal 34. Corrosion 35. Composition of metals 36. Basic operations 37. Linear measurements 38. Conversion of units 39. Fractions and decimal 40. Following oral and written instructions			LO3. PERFORM FABRICATION, INSTALLATION AND STRIPPING OF FORMWORKS 3.1 Identify fabrication and installation of formworks materials 3.2 Measure formworks materials 3.3 Cut materials according to specified requirement 3.4 Perform fabrication of materials into forms or stiffener columns and lintel beams 3.5 Install formworks 3.6 Observe safety precaution 3.7 Use appropriate PPE	TLE_IAMS9MW-IIIi-j-3
41. Procedures in excavating and backfilling 42. Types of soil 43. Excavation tools and			LO4. PERFORM EXCAVATION AND BASIC FILLING/COMPACTION 4.1 Prepare area for excavation according to the job requirement	TLE_IAMS9MW-IVa-d-4

**K to 12 BASIC EDUCATION CURRICULUM
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INDUSTRIAL ARTS – MASONRY
GRADE 10 (Specialization)**

Course Description:

Prerequisite: Grade 9 Masonry

This course is composed of the core competencies which lead to a **Masonry** National Certificate Level II (NCII). It covers lay brick/block for structure, plastering concrete/masonry surface and installing precast balusters and handrails. This also covers the knowledge, skills and attitude required to perform basic masonry works and prepare masonry materials.

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
<p>Introduction</p> <ol style="list-style-type: none"> 1. Basic concepts in masonry 2. Relevance of the course 3. Career opportunities 	<p>The learner demonstrates an understanding of the basic concepts and underlying theories in masonry.</p>	<p>The learner independently demonstrates core competencies in masonry as prescribed by TESDA Training Regulations.</p>	<ol style="list-style-type: none"> 1. Explain basic concepts in masonry 2. Discuss the relevance of the course 3. Explore on opportunities for masonry as a career 	
PERSONAL ENTREPRENEURIAL COMPETENCIES (PECS)				
<ol style="list-style-type: none"> 1. Assessment of learner's Personal Competencies and Skills (PeCS) vis-à-vis PeCS of a practicing entrepreneur/employee in a province. <ol style="list-style-type: none"> 1.1 Characteristics 1.2 Attributes 1.3 Lifestyle 1.4 Skills 1.5 Traits 2. Analysis of PeCS in relation to a practitioner 3. Strengthening and further development of ones PeCS 	<p>The learner demonstrates an understanding of one's Personal Competencies and Skills (PeCS) in masonry.</p>	<p>The learner independently creates a plan of action that strengthens/ further develops one's PeCS in masonry.</p>	<p>LO 1. Develop and strengthen personal competencies and skills (PeCS) needed masonry</p> <ol style="list-style-type: none"> 1.1 Identify areas for improvement, development and growth 1.2 Align one's PeCS according to his/her business/career choice 1.3 Create a plan of action that ensures success of his/her business/career choice 	<p>TLE_PECS10-Ik-8</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
ENVIRONMENT AND MARKET (EM)				
1. Product Development 2. Key concepts of developing a product 3. Finding Value 4. Innovation 4.1 Unique Selling 4.2 Proposition (USP)	The learner demonstrates an understanding of the concepts environment and market in the field of masonry, particularly in one's town/municipality.	The learner independently creates a business vicinity map reflective of potential Masonry market within the locality/town.	LO 1. Develop a product/ service in Masonry 1.1 Identify what is of "Value" to the customer 1.2 Identify the customer 1.3 Explain what makes a product unique and competitive 1.4 Apply creative and innovative techniques to develop marketable product 1.5 Employ a Unique Selling Proposition (USP) to the product/service	TLE_EM10-Ik-IIk-1
5. Selecting Business Idea 6. Key concepts of Selecting a Business Idea 6.1 Criteria 6.2 Techniques			LO 2. Select a business idea based on the criteria and techniques set 2.1 Enumerate various criteria and steps in selecting a business idea 2.2 Apply the criteria/steps in selecting a viable business idea 2.3 Determine a business idea based on the criteria/techniques set	TLE_EM10-IIIk-2
7. Branding			LO 3. Develop a brand for the product 3.1 Identify the benefits of having a good brand 3.2 Enumerate recognizable brands in the town/province 3.3 Enumerate the criteria for developing a brand 3.4 Generate a clear appealing product brand	TLE_EM10-IVk-3
LAY BRICK/BLOCK FOR STRUCTURE (60) (LB)				
1. Classification of work plans 2. Interpretation of work plans	The learner demonstrates an understanding of the concepts and underlying principles in laying brick/block for structure.	The learner independently lays brick/block for structure based on job requirements.	LO1. PREPARE FOR LAYING BRICK/BLOCK FOR STRUCTURE 1.1 Interpret plan of a brick/block structure 1.2 Select tools, materials and equipment	TLE_IAMS10LB-Ia-f-1

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
3. Brick/block laying tools and equipment 4. Proper storing of materials 5. Composition of bricks/block 6. Characteristic of soils 7. Effects of heat 8. Basic operations 9. Mensuration 10. Ratio and proportion 11. Preparing, reading and interpreting work plans			1.3 Stockpile materials for laying brick/block structure	
12. Reference building lines 13. Brick/block laying tolerances 14. Proper housekeeping practices 15. Basic structural bonds and Joints 16. Classification of concrete masonry units 17. Geographical orientation 18. Topographical conditions 19. Mensuration 20. Basic operations 21. Reading and interpreting graphs and conversion tables 22. Receiving and responding to workplace communication			LO2. LAY-OUT/ESTABLISH BRICK/BLOCK STRUCTURE LOCATION 2.1 Identify reference building lines 2.2 Establish location of brick/block structure based on reference building lines 2.3 Lay-out brick/block structure according to job specifications	TLE_IAMS10LB-Ig-j-2

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
23. Selection and use of appropriate PPE. 24. Procedures in installing horizontal/vertical guide for brick/block 25. Reinforcement bars/dowel Sizes 26. Brick/block laying procedures 27. OHS regulations 28. Geographical orientation 29. Mensuration 30. Basic operations 31. Reading and interpreting graphs and tables 32. Receiving and responding to workplace communication			LO3. PERFORM LAYING BRICK/BLOCK FOR STRUCTURE 3.1 Install horizontal/vertical guide for brick/block structure 3.2 Install reinforcing bar/dowel 3.3 Spread mortars on the base edge of brick/block 3.4 Position brick/block according to design/specification/location 3.5 Check plumbness during brick/block laying 3.6 Perform housekeeping 3.7 Use appropriate PPE	TLE_IAMS10LB-IIa-f-3
33. Standard operating procedures 34. Proper housekeeping practices 35. Recycling 36. Basic operations			LO4. COMPLETE LAYING OF BRICK/BLOCK FOR STRUCTURE 4.1 Cast-in place concrete structures are constructed according to design and job specifications. 4.2 Inspect the work to ensure conformity with requirements 4.3 Perform housekeeping 4.4 Use appropriate PPE	TLE_IAMS10LB-IIg-j-4
PLASTERING CONCRETE/MASONRY SURFACE (60) (PC)				
1. Preparation and selection of tools, equipment and materials 2. Preparation of wall	The learner demonstrates an understanding of the underlying principles in plastering wall surface.	The learner independently plasters wall surfaces based on job requirements.	LO1. PREPARE CONCRETE/MASONRY SURFACES FOR PLASTERING 1.1 Select tool, materials and equipment 1.2 Perform wall surface preparations	TLE_IAMS10PC-IIIa-d-3

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
surface for plastering 3. Composition and properties of concrete/masonry materials 4. Climatic conditions 5. Basic operations 6. Mensuration 7. Conversion of units 8. Receiving and responding to workplace communication				
9. Interpretation of plans and details 10. Selection and preparation of materials and tools for plastering 11. Mixing proportion of plaster mortar 12. Proper storing of materials 13. Texture of concrete and masonry surfaces 14. Interpretation of plans and details 15. Mensuration			LO2. PREPARE FOR PLASTERING CONCRETE 2.1 Interpret plans and details 2.2 Select tools, materials and equipment in line with job requirements 2.3 Store/stockpile materials for plastering	TLE_IAMS10PC-IIIe-f-2
16. Procedures of plastering 17. Plastering techniques 18. OHS regulations 19. Climatic conditions 20. Health hazards 21. Recycling			LO3. PERFORM PLASTERING WORK 3.1 Determine the required thickness, plumbness, squareness, levelness and alignment of structure. 3.2 Distribute mortar/coating on the wall surface	TLE_IAMS10PC-IIIg-j-3

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
22. Waste and pollution 23. Linear measurements 24. Mensuration			3.3 Use appropriate PPE 3.4 Observe safety precaution	
25. Standard operating procedures 26. Proper housekeeping practices 27. Masonry materials preservation 28. Recycling 29. Basic calculations 30. Mensurations 31. Filling-up forms 32. Reporting			LO4. COMPLETE PLASTERING WORK 4.1 Complete plastering work according to job specification 4.2 Perform housekeeping 4.3 Use appropriate PPE	TLE_IAMS10PC-IVa-d-4
INSTALLING PRE-CAST BALUSTERS AND HANDRAILS (40) (IB)				
1. Interpretation of plans and details 2. Preparing And Selecting Materials Tools And Equipment 3. Proper Storing Of Materials 4. Mixing Proportion Of Materials 5. Phases Of Matter 6. Interpretation Of Plans And Details 7. Linear Measurements 8. Basic Operations	The learner demonstrates an understanding of the underlying principles of installing pre-cast balusters and handrail.	The learner independently installs pre-cast balusters and handrail based on job requirements.	LO1. PREPARE FOR INSTALLING PRE-CAST BALUSTERS AND HANDRAILS 1.1 Interpret plans and drawings 1.2 Select tools, materials and equipment 1.3 Stockpile materials 1.4 Establish location of pre-cast balusters based on a given task	TLE_IAMS10IB-IVe-f-5

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
9. Lay outting/marketing distance of balusters 10. Checking alignment of balusters 11. Mortar application 12. PPE 13. OHS regulations 14. Geographical conditions 15. Climatic conditions 16. Force, power and energy 17. Conversion of units 18. Linear/angular measurements			LO2. PERFORM PRE-CAST BALUSTER AND HANDRAIL INSTALLATION 2.1 Lay-out and mark pre-cast baluster according to job requirements 2.2 Align precast baluster and handrail according to job requirements 2.3 Apply mortar to pre-cast baluster and handrails 2.4 Use appropriate PPE 2.5 Perform housekeeping	TLE_IAMS10IB-IVg-h-2
19. Standard operating procedures 20. Proper housekeeping practices 21. Masonry materials preservation 22. Recycling 23. Basic calculations 24. Mensurations 25. Filling-up forms 26. Reporting			LO3. COMPLETE INSTALLATION OF PRE-CAST BALUSTER AND HANDRAIL 3.1 Conduct final checking to ensure conformity with job requirements 3.2 Conduct final installation of pre-cast baluster and handrail 3.3 Perform housekeeping	TLE_IAMS10IB-IVi-j-3

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GLOSSARY

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Code Book Legend

Sample: TLE_IAMS7/8UT-0a-1

LEGEND		SAMPLE		DOMAIN/ COMPONENT	CODE
First Entry	Learning Area and Strand/ Subject or Specialization	Technology and Livelihood Education_Industrial Arts Masonry	TLE_IA MS 10	Personal Entrepreneurial Skills	PECS
	Grade Level	Grade 7/8		Environment and Marketing	EM
Uppercase Letter/s	Domain/Content/ Component/ Topic	Prepare Construction Materials and Tools	UT	Prepare Construction Materials and Tools	UT
				Perform Estimation and Basic Calculation	MC
			-	Observe Procedure, Specifications and Manuals of Instructions	ID
Roman Numeral <i>*Zero if no specific quarter</i>	Quarter	No Specific Quarter	0	Maintain Tools and Equipment	MT
Lowercase Letter/s <i>*Put a hyphen (-) in between letters to indicate more than a specific week</i>	Week	Week One	a	Practice Health and Safety Procedure	OS
			-	Prepare Masonry Materials	MM
Arabic Number	Competency	Prepare masonry materials and tools for the task	1	Perform Basic Masonry Works	MW
				Lay Brick/Block for Structure	LB
			-	Plastering Concrete/ Masonry Surface	PC
			-	Installing Pre-Cast Balusters and Handrails	IB